

MATERIAL SAFETY DATA SHEET



Peters Professional® Soluble Plant Food 20-20-20 All-Purpose

29125

Scotts-Sierra Horticultural Products Co.
The Scotts Company
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In Case of Emergency call:
1-937-644-0011 (USA)
For non-Emergency calls:
1-937-644-0011 (USA)

I. MATERIAL IDENTIFICATION

Product Name: Peters Professional(R) Soluble Plant Food
Analysis: 20-20-20 All Purpose
Stock Number: 29125

NFPA Hazard Ratings		
Health	2	0 Least
Flammability	0	1 Slight
Reactivity	1	2 Moderate
		3 High
		4 Severe

II. HAZARDOUS INGREDIENTS

MATERIAL	CAS #	OSHA	ACGIH
		PEL	TLV
Potassium Nitrate	7757-79-1	None	None
(containing up to 5 % Sodium Nitrate)	7631-99-4	None	None
Monopotassium Phosphate	7778-77-0	None	None
Urea	57-13-6	None	None
Magnesium Sulfate	7487-88-9	None	None
Boric Acid	0043-35-3	None	None
Copper EDTA	4025-15-1	None	None
Iron EDTA	5708-41-5	None	None
Manganese EDTA	5375-84-5	None	None
Sodium Molybdate	7631-45-0	5 mg/m3	5 mg/m3
Zinc EDTA	4025-21-9	None	None

The ACGIH Threshold Limit Values for nuisance (inert) dusts containing < 1 % crystalline silica and no asbestos are: 10 mg/m3 total, 5 mg/m3 respirable.

III. FIRST AID PROCEDURES

Eyes: If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.
Ingestion: Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2 glasses of water, then induce repeated vomiting until vomit is clear. Call physician.
Skin: Wash with plenty of soap and water.
Inhalation: Remove to fresh air. Treat symptomatically.

IV. HEALTH HAZARD INFORMATION

Summary of Risks

Prolonged or repeated direct contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia, and kidney injury.

Ingestion of product can cause severe gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

A Russian study of 67 workers in an environment with high concentrations of urea found a high incidence of protein metabolism disturbances and chronic weight loss. Exposure levels were not reported.

Tumorigenic, mutagenic, and reproductive effects of potassium nitrate and urea in laboratory animals are reported in the NIOSH Registry of Toxic Effects.

Blue dye may cause temporary staining of skin.

Medical conditions which may Skin abrasions and sores.

be aggravated by contact: Inhalation of dust may aggravate asthma.

Target Organs: Skin, eyes, respiratory tract, gastrointestinal tract, and central nervous system.

Primary Entry Route(s): Ingestion, inhalation.

Chronic Effect(s): Chronic exposure to nitrates may cause weakness, depression, headache, blood changes (methemoglobinemia and anemia), and kidney injury (nephritis).

Acute Effect(s): Excessive inhalation of dust may cause irritation and coughing. Prolonged skin contact with product may cause mild irritation.

Ingredients Listed as a Carcinogen

IARC Monographs: No

NTP: No

OSHA: No

V. PERSONAL PROTECTION AND PRECAUTIONS

Personal protective equipment.

Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of product dissolved in liquid may be irritating; use chemical goggles.

Gloves: None required for normal use. If prolonged or repeated use irritates skin, use natural rubber gloves.

Respirator: If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dusts, mists, and fumes to reduce exposures to acceptable levels.

Workplace Considerations

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.

Safety Stations: Running water should be available in case material gets in eyes.

VI. PHYSICAL HAZARD INFORMATION

Flammable Limits (% in Air):	N/A	Color:	Aqua-blue powder
Extinguishing Media:	Water	Odor:	Slight yeasty odor
Auto Ignition Temperature:	N/A	Boiling Point:	Decomposes on heating
Flash Point (method):	Decomposes on heating	Solubility in H2O	3.5 lbs/gal
		Specific Gravity:	(H2O = 1) 45.1-47.2 lbs/ft3
		Vapor Pressure:	Not Known
		Evaporation Rate:	N/A
		pH:	5.4 (10% solution)

Reactivity**Stability:**

Stable

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid:

Extreme heat. Contact with strong alkalis, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Strong alkalis and reducing agents. Chlorine compounds.

Hazardous Decomposition**Products:**

Oxides of nitrogen, potassium, sulfur, and phosphorous as well as ammonia, biuret, cyanuric acid and cyanic acid.

Chemical Incompatibilities:

Nitrates are incompatible with strong alkalis and reducing agents, active metals (such as aluminum and magnesium), ammonia, organic, and combustible materials.

Urea is incompatible with strong oxidizers alkalis, sodium nitrite, and many chlorine compounds (including bleach and other household cleaning products).

**Unusual Fire, Explosion
and Reactivity Hazards:**

This product is comprised of materials which are oxidizers in their pure, unmixed forms. It will not burn but can provide oxygen for existing fires and cause combustible materials to ignite explosively.

Material decomposes on heating to emit ammonia and toxic oxides of nitrogen, sulfur, phosphorous, and potassium as well as biuret, cyanuric acid and cyanic acid.

In Case of Fire:

Evacuate area. Flood with water to cool containers. Apply water from a safe distance to avoid splattering of molten material. Wear self-contained breathing apparatus to fight large fires.

VII. REGULATORY INFORMATION**DOT Classification:**

Not DOT regulated.

VIII. STORAGE AND SPECIAL PRECAUTIONS**Precautions to be taken in handling and storage**

Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children.

In case of spills

Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.

Waste Management/Disposal

Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

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